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Substitute for form 1449A/PTO					Complete if Known			
INFORMATION DISCLOSURE STATEMENT BY APPLICANT					Application Number	09/942,121		
(use as many sheets as necessary)					Filing Date	08/30/2001		
					First Named Inventor	Sidelman		
					Group Art Unit	1653		
					Examiner Name	Liu		
Sheet	1	Of	4	Attorney Docket Number		01/22453		
U.S. PATENT DOCUMENTS								
Examiners Initials	Cite No. <sup>1</sup>	U.S. Patent Document Number	Kind Code <sup>2</sup> (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, columns, lines, Where Relevant Passages or Relevant Figures Appear		
SWL		5,147,853		Dosako et al.	09-15-1992			
		5,344,820		Dosako et al.	09-06-1994			
		5,330,975		Isoda et al.	07-19-1994			
		3,764,670		Katzir-Katchalsky et al	10-09-1993			
		6,570,060		McLachlan	05-27-2003			
		5,707,968		Mukerji et al.	01-13-1998			
		5,538,952		Mukerji et al.	07-23-1996			
		5,506,209		Mukerji et al.	04-09-1996			
		5,712,250		Mukerji et al.	01-07-1998			
		5,985,275		Neurath et al.	11-16-1999			
		6,495,344		Carr et al	12-17-2002			
		20030195150		Reynolds et al	10-16-2003			
		6,180,761		Han et al	01-30-2001			
		5,846,732		Collin et al	12-08-1998			
	SWL		20040002118		Smilansky	01-01-2004		
FOREIGN PATENT DOCUMENTS								
Examiners Initials	Cite No. <sup>1</sup>	Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, columns, lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
SWL		JP	3476516		Takenaka	12-10-2003		
SWL		WO	03/093308		Juillerat et al	11-13-2003		
Examiner Signature						Date Considered	6/17/05	

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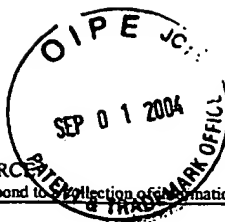
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Sheet	2	Of	4
		Attorney Docket Number	01/22453
OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
SWL		Alexander et al., "Isolation and characterization of the bovine kappa-casein gene", Eu J Biochem 178: 395-401, 1988. (abstract)	
		American Health Consultants, "New Drugs, New Data Hold Promise for Next Decade of HIV Treatment", AIDS Alert, 2002. 9 <sup>th</sup> Conference on Retroviruses.	
		Carles et al., "Kinetics of the action of chymosin (rennin) on a peptide bond of bovine alpha s1-casein. Comparison of the behaviour of this substrate with that of beta- and kappa o-caseins", FEBS Lett. 1985 Jun 17;185(2):282-6. (abstract).	
		Chabance et al., "Casein Peptide Release and Passage to the Blood in Humans During Digestion of Milk or Yoghurt", Biochimie, 80(2): 155-165, 1998. (abstract).	
		Chabance et al., "Binding of the bovine caseinoglycopeptide to the platelet membrane glycoprotein GPIb alpha", Biochem Mol Biol Int. 1997 Jun;42(1):77-84. (abstract)	
		Coste et al., "Identification of C-terminal peptides of bovine beta-casein that enhance proliferation of rat lymphocytes", Immunol Lett. 1992 Jun;33(1):41-6. (abstract)	
		Fiat et al., "Biologically Active Peptides From Milk Proteins With Emphasis on Two Examples Concerning Antithrombotic and Immunomodulating Activities", J. Dairy Sci., 76: 301-310, 1993.	
		Giannoukakis et al., "Gene and Cell Therapies for Diabetes Mellitus", Biodrugs 16(3): 149-173, 2002"	
		Groenen et al., "The complete sequence of the gene encoding bovine alpha s2-casein. Gene", 1993 Jan 30;123(2):187-93. (abstract)	
		Kim et al., "Genetic Models for Non Insulin Dependent Diabetes Mellitus in Rodents", Journal of Basic & Clinical Physiology & Pharmacology 9(2-4): 325-345, 1998.	
		Kitts, "Bioactive substances in food: identification and potential uses", Can J Physiol Pharmacol. 1994 Apr;72(4):423-34. (abstract)	
		Koczan et al., "Genomic organization of the bovine alpha-S1 casein gene", Nucleic Acids Res. 1991 Oct 25;19(20):5591-6.	
		Lahov et al., Antibacterial and Immunostimulating Casein-Derived Substances From Milk: Casacidin, Isracidin Peptides", Food and Chemical Toxicology, 34(1): 131-145, 1996.	
		Laugesen, "The Influence of Consumption of A1 Beta-Casein on Heart Disease and Type 1 Diabetes-The Authors Reply", NZ Med J 16(1170):U295, 2003.	
		Malkoski et al., "Kappacin, a novel antibacterial peptide from bovine milk", Antimicrob Agents Chemother. 2001 Aug;45(8):2309-15.	
		Marmor et al., "Homozygous and Heterozygous CCR5-Delta32 Genotypes are Associated with Resistance to HIV Infection", JAIDS 27: 472-481, 2001.	
SWL		McSweeney et al., "Proteolytic specificity of chymosin on bovine alpha s1-casein", J Dairy Res. 1993 Aug;60(3):401-12. (abstract)	
Examiner Signature	Date Considered		

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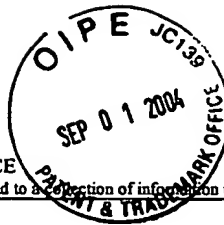
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First Named Inventor		Sidelman			
Group Art Unit		1653			
Examiner Name		Liu			
Sheet	3	Of	4	Attorney Docket Number	01/22453
swL		Meisel et al., "Bioactive Peptides Encrypted in Milk Proteins: Proteolytic Activation and Thropho-Functional Properties", Antonie Van Leeuwenhoek, 76(1-4): 207-15, 1999. (abstract)			
		Michaelidou et al., "Isolation and Identification of Some Major Water-Soluble Peptides in Feta Cheese", J. Dairy Sci., 81: 3109-3116, 1998.			
		Nolan et al., "Antiretroviral Prophylaxis of Perinatal HIV-1 Transmission and the Potential Impact of Antiretroviral Resistance", JAIDS 30: 216-229, 2002.			
		Notterpek et al., "Experimental Models of Peripheral Neuropathies", Laboratory Animal Science 49(6): 588-599, 1999.			
		Pahkala et al., "Decomposition of Milk Proteins During the Ripening of Cheese 1. Enzymatic Hydrolysis of Alpha-S Casein", Meijeritieteellinen Aikakauskirja, 47(1): 39-47, 1989.			
		Prud'homme, "Gene Therapy of Autoimmune Diseases with Vectors Encoding Regulatory Cytokines or Inflammatory Cytokine Inhibitors", The Journal of Gene Medicine 2: 222-232, 2000.			
		Rattray et al., "Specificity of an Extracellular Proteinase From <i>Brevibacterium Linens</i> ATCC", Applied and Environmental Microbiology, 62(2): 501-506, 1996.			
		Rota et al., "Characterization of a novel coronavirus associated with severe acute respiratory syndrome", Science. 2003 May 30;300(5624):1394-9. Epub 2003 May 01.			
		Shimizu et al., "Emulsifying Properties of an N-Terminal Peptide Obtained From the Peptic Hydrolyzate of Alphas1-Casein", Journal of Food Science, 49(4): 1117-1120, 1984.			
		Sriwanthana et al., "HIV-Specific Cytotoxic T Lymphocytes, HLA-A11, and Chemokine-Related Factors May Act Synergistically to Determine HIV Resistance in CCR Delta32-Negative Female Sex Workers in Chiang Rai, Northern Thailand", Aids Research and Human Retroviruses 17(8): 719-734, 2001.			
		von dem Borne et al., "Thrombopoietin: Modes of Action, Role in Platelet Disorders and New Drugs", Academic Medical Center, Amsterdam.			
		Wong et al., "Insulin-Dependent Diabetes Mellitus and its Animal Models", Current Opinion in Immunology 11: 643-647, 1999.			
		Yoon et al., "Cellular and Molecular Pathogenic Mechanisms of Insulin-Dependent Diabetes Mellitus", Annals New York Academy of Science, pp: 200-211.			
		Yvon et al., "Solubility of peptides in trichloroacetic acid (TCA) solutions. Hypothesis on the precipitation mechanism", Int J Pept Protein Res. 1989 Sep;34(3):166-76. (abstract)			
swL		Mercier et al., "Construction and identification of recombinant plasmids carrying cDNAs coding for ovine alpha S1-, alpha S2-, beta-, kappa-casein and beta-lactoglobulin. Nucleotide sequence of alpha S1-casein cDNA", Biochimie. 1985 Sep;67(9):959-71. (abstract)			
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SWL		Exterkate et al, "Diversity of cell envelope proteinase specificity among strains of Lactococcus lactis and its relationship to charge characteristics of the substrate-binding region", Appl Environ Microbiol. 1993 Nov;59(11):3640-7.			
		Nakajima-Adachi et al, "Determinant analysis of IgE and IgG4 antibodies and T cells specific for bovine alpha(s)1-casein from the same patients allergic to cow's milk: existence of alpha(s)1-casein-specific B cells and T cells characteristic in cow's-milk allergy", J Allergy Clin Immunol. 1998 May;101(5):660-71. (abstract)			
		Pizzano et al, "Antipeptide Antibodies as Analytical Tools To Discriminate among Bovine alpha(s)1-Casein Components", J Agric Food Chem. 1998 Feb 16;46(2):766-771. (abstract)			
		Hachimura et al, "Differential inhibition of T and B cell responses to individual antigenic determinants in orally tolerized mice", Int Immunol. 1994 Nov;6(11):1791-7. (abstract)			
		Ametani et al, "Antibody response of three different strains of mice to alpha s1-casein analyzed by using proteolytic and synthetic peptides", Biochem Biophys Res Commun. 1988 Aug 15;154(3):876-82. (abstract)			
		Saito et al, "Isolation and structural analysis of antihypertensive peptides that exist naturally in Gouda cheese", J Dairy Sci. 2000 Jul;83(7):1434-40. (abstract)			
		Perich et al, "Epitope analysis of the multiphosphorylated peptide alpha s1-casein (59-79)", J Pept Sci. 1999 May;5(5):221-33. (abstract)			
		Considine et al, "Proteolytic Specificity of Cathepsin G on Bovine $\alpha_{s1}$ - and $\beta$ -Casiens", Food Chemistry, 76(1):59-67, 2002 (abstract)			
SWL		Koka et al, "Investigation of the Ability of a Purified Protease from <i>Pseudomonas Fluorescens</i> RO98 to Hydrolyze Bitter Peptides from Cheese", Int Dairy J., 10(1-2):75-79, 2000, (abstract)			
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